

ABSTRACT OF THE DISCLOSURE

It is featured that a generator can respond to a variation in the load with a generous margin regardless of the its temperature. The output current of the generator 1 is rectified with a converter 3 consisting mainly of a thyristor bridge. A direct current output of the converter 3 is then converted by an inverter 4 into an alternating current at a commercial frequency and then connected to the load 5. The engine speed is controlled so that the on state angle of the thyristors in the converter 3 is maintained to a target angle. Since the target angle is set within a range not higher than the maximum limit, the generator can constantly run with a generous margin and readily respond to a variation in the load. The target angle can be modified depending on the temperature of the generator 1 in order to inhibit the engine from being overloaded and its speed from increasing excessively.